| Index of Claims | Application No. | Applicant(s)   |
|-----------------|-----------------|----------------|
|                 | 09/841,713      | RAST, RODGER H |
|                 | Examiner        | Art Unit       |
|                 | Laura A Grier   | 2644           |

| <b>√</b> | Reject | ed   | -    | (Thro | ugh r<br>Cance | N    | N     | Nor | 1-E  | ec | ted  |      | A   | Appeal |          |      |  |      |      |   |  |
|----------|--------|------|------|-------|----------------|------|-------|-----|------|----|------|------|-----|--------|----------|------|--|------|------|---|--|
| =        | Allowe | ed   | ÷    | F     | Restri         | cted | i<br> |     |      | ı  | Inte | erfe | rer | nce    |          | 0    |  | Obje | ecte | d |  |
|          |        | Date | <br> |       | laim           |      |       |     | Date | -  |      |      | ]   | Cli    | aim      | Date |  |      |      |   |  |
| 3/20/5   |        |      |      | Final | Original       |      |       |     |      |    |      |      |     | Final  | Original |      |  |      |      |   |  |

| Cla             | aim      | Г        | Date            |          |    |  |          |          |          |          |               | Clai     | m                | Date          |          |          |          |                   |               |          |         |            |              | aim           | Date          |         |   |              |          |            |              |        |  |
|-----------------|----------|----------|-----------------|----------|----|--|----------|----------|----------|----------|---------------|----------|------------------|---------------|----------|----------|----------|-------------------|---------------|----------|---------|------------|--------------|---------------|---------------|---------|---|--------------|----------|------------|--------------|--------|--|
|                 |          | 2        |                 |          |    |  |          |          |          |          |               | Ī        |                  |               |          |          |          |                   |               |          |         | 7          |              | $\overline{}$ |               |         |   |              |          |            |              |        |  |
| <del> </del>    | Original | 3/18/5   |                 |          |    |  |          |          |          |          | -             |          | Original         |               | - 1      |          |          |                   |               |          |         | ٠,         | <del> </del> | Original      |               |         |   |              |          |            |              |        |  |
| Final           | įġ       | 18       |                 |          |    |  |          |          |          |          | I I           | •        | igi              |               | Į.       |          |          |                   |               |          | 1       |            | Final        | iĝi           |               |         |   |              |          |            |              |        |  |
| ۱ ۳             | ŏ        | 16       |                 |          | ١. |  |          |          |          |          | "             | ٠        | ŏ                | ŀ             | - 1      |          |          | - 1               |               |          | 1       | -          | "            | ΙŏΙ           |               |         |   |              |          |            | I            |        |  |
|                 |          |          | $\vdash$        |          |    | ┞  | $\vdash$ | Ш        | _        | 4        |               | 4        |                  | $\dashv$      |          |          |          | -                 |               | +        | +       | 4          |              |               | -             | ┼       | ╄   |              |          |            |              |        |  |
|                 | 1        | V        | Ш               |          |    | ㄴ  |          |          |          |          |               | 4        | 51               | $\dashv$      | _        | _        | _        | _                 | _             | _        | 1       | վ.։        |              | 101           | _             | ↓_      | ╄   | <u> </u>     |          |            | _            |        |  |
|                 | 2        | 0        | Ш               |          |    |  |          |          |          |          | · L_          |          | 52_              |               |          | $\Box$   |          |                   |               |          | $\perp$ | _  _       |              | 102           |               | $\perp$ | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |              |          |            |              |        |  |
|                 | 3        | V        |                 |          |    |  | 1        |          |          |          |               | . 1      | 53               |               |          |          |          |                   |               |          | 1.      |            |              | 103           |               |         |   |              |          |            |              |        |  |
|                 | 4        | V,       |                 |          |    | Г  |          |          |          |          |               | П        | 54               |               |          |          |          |                   |               |          |         | ٦.         |              | 104           |               | Г       | Г   |              |          |            | П            |        |  |
|                 | 5        | 7        | П               |          |    |  |          |          |          |          |               |          | 55               |               |          |          |          |                   |               |          |         | 7          |              | 105           |               | T       |   | П            |          |            | $\neg$       |        |  |
|                 | 6        | 7        |                 |          |    |  |          |          |          | $\neg$   |               | $\neg$   | 56               | $\neg$        | ヿ        | 一        | 寸        |                   | $\neg$        | 1        | _       | ٦          |              | 106           |               | 1       | T   |              |          |            | 丁            |        |  |
|                 | 7        | O,       |                 |          |    | <u> </u>   |          |          |          | _        |               | 寸        | 57               |               | $\neg$   |          | ヿ        |                   | $\neg \vdash$ | 十        | 十       | <b>⊣</b> : |              | 107           |               | $\top$  | ┰   | t            |          |            | 一            | _      |  |
|                 | 8        | 7        | Н               |          | _  | t  |          | Н        |          | $\dashv$ | -             | +        | 58               | $\vdash$      | -        | ┪        | ┪        | $\dashv$          | 十             | 十        | +       | ⊢'         |              | 108           | +             | +       | +   | $\vdash$     | $\vdash$ | $\neg$     | ᅥ            | _      |  |
| -               | 9        | 0,       | Н               |          | -  | <del>                                     </del> |          | $\vdash$ |          | -        | $\vdash$      | +        | 59               | $\dashv$      | _        | -        | _        | -                 | -             | +        | +       | ٦.         | $\vdash$     | 109           | -             | +-      | ╫   | ╁            | $\vdash$ | $\vdash$   | $\dashv$     | _      |  |
| <b>-</b>        | 10       | ₹/       | Н               |          |    | ┼─   |          | -        |          | $\dashv$ | -             | $\dashv$ | 60               |               | -        |          | -        |                   |               | -        | +       |            |              | 110           | +             | ╁       | ╁   | $\vdash$     | -        | $\vdash$   | ᅱ            | _      |  |
|                 |          | 1        | Н               |          | _  | ├  | -        | $\vdash$ |          | $\dashv$ | -             | $\dashv$ |                  | $\rightarrow$ | -        | -        | -        | $\dashv$          | +             | +        | +       | 4:         | -            |               |               | +-      | ┼   |              | $\vdash$ | Н          | -            |        |  |
| <u> </u>        | 11       |          | Н               | _        |    | ├-   |          | Н        | _        | $\dashv$ |               | -        | 61               | $\dashv$      | -        | _        | _        |                   | $\dashv$      | +        | +       | -          | <u></u>      | 111           |               | +       | —   | $\vdash$     | $\vdash$ | $\sqcup$   |              |        |  |
| <u></u>         | 12       | 9        | Щ               |          |    | <u> </u>   | <u> </u> | Ш        |          |          | $\vdash$      | _        | 62               | $\Box$        | _        | 4        | _        |                   | $\dashv$      | _        | +       | -          | <u></u>      | 112           |               | $\bot$  | _   | $\vdash$     | <u> </u> | $\sqcup$   | _            |        |  |
| <u></u>         | 13       |          | Ш               |          |    | lacksquare                                       |          | Ш        |          | $\Box$   | <u> </u>      | 4        | 63               | $\Box$        |          | _        |          | _                 | _             | 4        | $\perp$ | _          | <u></u>      | 113           |               | $\perp$ | _   | $\perp$      |          | $\Box$     | _            |        |  |
| L               | 14       | 0        |                 |          |    |  |          | Ш        |          |          | L             | $\perp$  | 64               |               |          |          |          |                   | $\perp$       | ⊥        | $\perp$ | _          |              | 114           |               | _       |   | <u> </u>     |          |            |              |        |  |
|                 | 15       | V        |                 |          |    |  |          |          |          |          |               |          | 65               |               | I        | $\Box$   | $\Box$   | $oldsymbol{\bot}$ |               | $\bot$   |         | ╝          |              | 115           |               |         |   | L            |          |            | _]           |        |  |
|                 | 16       | D,       |                 |          |    |  |          |          |          |          |               | T        | 66               |               |          | T        |          | $\neg$            | Т             | T        | T       | 7          |              | 116           |               | 1       |   |              |          |            |              |        |  |
|                 | 17       | 7        |                 |          |    |  |          |          |          |          |               |          | 67               |               |          |          |          |                   | T             |          | T       | 7          |              | 117           |               |         |   | T            |          |            |              | _      |  |
|                 | 18       | 0        | П               |          |    | t  |          |          |          | $\Box$   |               | 1        | 68               |               | 寸        | 寸        | ╛        | $\exists$         | $\dashv$      | $\top$   | $\top$  | ┪.         |              | 118           | $\neg \vdash$ | 1       | 1   | $\vdash$     |          |            |              | _      |  |
|                 | 19       | Ď.       | H               |          |    | t  |          | H        |          | 1        |               | 7        | 69               |               | 一        | 7        |          | 寸                 | $\dashv$      | $\top$   | $\top$  | ┪:         | 1            | 119           | $\neg$        | +       | +   | $\vdash$     |          |            | -            | _      |  |
|                 | 20       | 9        | Н               | _        |    | ├  | -        | Н        |          |          | -             | -+       | 70               |               |          | -        | -        |                   | +             | +        | +       | 2,         | $\vdash$     | 120           | +             | +-      | ╁   | ┼            |          | $\dashv$   | $\dashv$     | _      |  |
| -               | 21       | ľ        | Н               |          | _  | ┢  |          | $\vdash$ |          | $\dashv$ | ·             | +        | 71               | $\vdash$      | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$          | $\dashv$      | +        | +       | ٦.         | $\vdash$     | 121           |               | +       | ╁   | ╁            | H        | $\dashv$   | $\dashv$     |        |  |
| -               |          | $\vdash$ | Н               |          | _  | -  |          | Н        |          | $\dashv$ | `-            | +        |                  | $\vdash$      | -        | $\dashv$ |          | -                 |               | +        | +       |            | <b>}</b> -   |               |               | +-      | ╀   | ┼—           | -        | $\vdash$   | $\dashv$     |        |  |
| <b> </b>        | 22       | ├-       | Н               |          |    | <u> </u>   |          | Н        |          | -        | -             | _        | 72               | $\vdash$      |          |          |          | -                 | -             |          | +       | -          | ·—           | 122           | -             | +-      | ╀   | -            | $\vdash$ | $\dashv$   |              |        |  |
|                 | 23       | L        | Ш               |          |    | ╙  |          | Ш        |          | _        | ·             | _        | 73               |               | _        |          | _        | _                 | _             | _        | 4       | 4          | <u> </u>     | 123           |               |         | ↓_  | <u> </u>     |          |            | _            |        |  |
| L_              | 24       |          | Ш               |          |    |  |          | Ш        |          |          |               | _        | 74               |               | _        | _        | _        | _                 |               |          | 4       | _ -        |              | 124           |               | $\perp$ | <u> </u>  | <u> </u>     | $\Box$   |            | _            |        |  |
| L               | 25       | L.       |                 |          |    |  |          |          |          |          | ∶∟            |          | 75               |               |          |          |          |                   |               |          |         | ╝          |              | 125           |               |         |   |              |          |            |              |        |  |
|                 | 26       |          |                 |          |    |  |          |          |          |          |               |          | 76               |               |          |          |          |                   |               |          | 1.      | _]:        |              | 126           |               |         |   |              |          |            |              |        |  |
|                 | 27       |          |                 |          |    |  |          |          |          |          |               |          | 77               |               |          |          |          |                   |               |          |         | 1          |              | 127           |               | T       | TΞ  |              |          |            |              |        |  |
|                 | 28       | Γ        | П               |          |    | П  |          |          |          | ·        |               | П        | 78               |               |          |          | П        |                   |               | $\top$   | Т       | 7          |              | 128           |               | 1       |   |              |          |            | ヿ            |        |  |
|                 | 29       | <u> </u> | $\Box$          |          |    |  |          |          |          |          |               | $\neg$   | 79               |               | ヿ        | 一        | ヿ        | _                 | $\neg \top$   | $\neg$   | $\top$  | ٦.         |              | 129           |               | $\top$  |   |              |          |            | $\neg$       |        |  |
|                 | 30       |          | П               |          |    | T  |          |          |          | _        | . —           | $\dashv$ | 80               | $\neg$        |          |          |          | 7                 | $\dashv$      | _        | +       | ٦:<br>:    | $\vdash$     | 130           |               |         | 1   |              | _        |            | 一            | $\neg$ |  |
|                 | 31       | $\vdash$ | $\vdash$        | _        | _  | ┰  | Н        |          |          | $\dashv$ | . —           | $\dashv$ | 81               |               | _        | $\neg$   | ┪        | ┪                 | $\dashv$      | $\top$   | 十       | ٦.         | _            | 131           | $\dashv$      | +       | +-  |              |          | $\neg$     | 一            | _      |  |
|                 | 32       | $\vdash$ | Н               | _        | _  | ├  | Н        |          |          |          | AF            | +        | 82               | -             |          | -        | $\dashv$ | -+                | $\dashv$      | +        | +       | -          | $\vdash$     | 132           | $\dashv$      | +       | +   | <del> </del> | ┝        | $\dashv$   | ┪            | _      |  |
| -               | 33       | Η-       | $\vdash$        | _        | -  | $\vdash$   | Н        | $\vdash$ |          | ┨.       | ": <b> </b> — | +        | 83               | $\vdash$      | $\dashv$ | $\dashv$ | +        | $\dashv$          | $\dashv$      | +        | +       | $\dashv$   | $\vdash$     | 133           |               | +       | +   | H            | $\vdash$ |            | <del> </del> |        |  |
| <del></del>     | 34       | $\vdash$ | Н               | _        | _  | $\vdash$   | Н        | $\vdash$ |          | $\dashv$ | $\vdash$      | +        | 84               | -             | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$          | +             | +        | +       | $\dashv$   | <u></u>      | 134           | -+-           | ╁       | ₩   |              | $\vdash$ | $\vdash$   |              | _      |  |
| <u> </u>        |          |          | Н               |          | _  | -  | $\vdash$ |          |          |          | ·             | +        | 04<br>0 <i>F</i> |               |          |          |          | $\dashv$          | +             | +        | +       | $\dashv$   | <u></u>      | 134           | +             | +-      | +-  | $\vdash$     | H        |            |              |        |  |
| <u> </u>        | 35       | _        | Ш               |          |    | <u> </u>   | Н        | $\sqcup$ |          | [.       | $\vdash$      | 4        | 85               | -             | 4        |          | _        |                   | +             | 4        | 4       | 4          | <u> </u>     | 135           |               | +       | $\vdash$  | $\vdash$     | $\vdash$ | <b>_</b> . |              |        |  |
| -               | 36       | _        | Ш               |          |    | _  | Щ        |          |          | <u> </u> | <u> </u>      | $\perp$  | 86               |               | _        | _        | _        | _                 | $\dashv$      | _ _      | _       | ┨.         | <u> </u>     | 136           |               | ╄-      |   | <b> </b>     |          | _          |              |        |  |
| L               | 37       |          | Ш               |          |    | $oxed{L}$  |          |          |          |          | <u> </u>      | _        | 87               | $\Box$        |          |          |          |                   | $\perp$       | $\perp$  | $\perp$ | <b>⊣</b> ` | <u></u>      | 137           |               | $\perp$ | $oldsymbol{\perp}$  | Ш            | Щ        |            |              |        |  |
|                 | 38       | _        | Ш               |          |    | Ш  | نـــا    |          |          | _        | $\perp$       | $\perp$  | 88               |               |          |          | ļ        |                   | $\perp$       | $\perp$  | ᆚ       | _ .        | <u></u>      | 138           |               | 1_      | 1_  |              | Ш        |            |              |        |  |
|                 | 39       |          | Ш               |          |    |  |          |          |          |          | L             |          | 89               |               |          |          |          |                   |               |          | $\perp$ | ╛          |              | 139           |               | $\perp$ | L   |              |          |            |              |        |  |
|                 | 40       | L        |                 |          |    |  |          |          |          |          |               | _[       | 90               |               |          | _J       |          |                   | $oxed{T}$     | $\Box T$ | $\int$  |            |              | 140           |               | $\prod$ |   |              |          |            |              |        |  |
|                 | 41       |          |                 |          |    |  |          |          |          |          |               | Т        | 91               |               |          |          |          |                   | Т             | T        | T       | ]          |              | 141           |               | Г       |   | Γ            |          |            |              |        |  |
|                 | 42       |          |                 |          |    |  |          |          |          |          |               | T        | 92               |               |          |          |          |                   |               | $\neg$   | $\top$  | 7          | $\Box$       | 142           | $\neg$        | Т       |   | Г            | П        |            | 一            |        |  |
|                 | 43       |          |                 |          |    |  | П        | $\Box$   |          | $\neg$   |               | $\top$   | 93               |               |          | $\dashv$ | $\neg$   | $\neg$            | $\top$        | $\top$   | +       | 7          | <u> </u>     | 143           | $\neg$        | T       |   |              | П        | $\dashv$   | 寸            | _      |  |
|                 | 44       |          | $\Box$          |          |    |  | Н        |          |          | $\neg$   |               | $\top$   | 94               | $\dashv$      | $\dashv$ | _        | $\dashv$ | 7                 | 十             | $\top$   | 十       | ┨.         |              | 144           | _             | $\top$  | T   | М            | Н        | $\dashv$   | _            | _      |  |
|                 | 45       | _        |                 |          |    |  | Н        |          | $\dashv$ | -1       | -             | +        | 95               | $\dashv$      | $\dashv$ | 十        | $\dashv$ | 十                 | $\dashv$      | +        | +       | -          |              | 145           | +             | ✝       | ╁╌  | H            | $\vdash$ | $\dashv$   | $\dashv$     | _      |  |
| <b> </b>        | 46       | $\vdash$ | $\vdash$        | -        |    | $\vdash$   | Н        | $\vdash$ | $\dashv$ | $\dashv$ | $\vdash$      |          | 96               | $\dashv$      | -+       | $\dashv$ | $\dashv$ | $\dashv$          | +             | +        | +       | $\dashv$   | <b>—</b>     | 146           | +             | +       | +   | $\vdash$     | Н        | $\vdash$   |              |        |  |
| -               | 47       | $\vdash$ | $\vdash$        | $\dashv$ |    | $\vdash$   | Н        | $\vdash$ | $\dashv$ | $\dashv$ | -             |          | 97               | $\dashv$      | -        | -        | $\dashv$ | -                 | -+            | +        | +       | $\dashv$   | <del> </del> |               |               | +       | ╁   | -            |          | -          | $\dashv$     | —      |  |
| <u> </u>        |          | -        | $\vdash \vdash$ |          |    | -  | Н        | $\dashv$ |          |          |               |          |                  | $\dashv$      |          | -+       |          | -+                | +             | -        | +       | -∤:        | $\vdash$     | 147           |               | +-      | ╀   | $\vdash$     | Щ        |            | -            |        |  |
| <u> </u>        | 48       | <u> </u> |                 | _        |    | <u> </u>   | Ш        |          |          |          | ·             | +        | 98               | -4            | -        | -        | _        | _                 | +             | +        | +       | -          |              | 148           | -             | ┼-      | ╀   | <u> </u>     | $\sqcup$ | $\dashv$   |              |        |  |
| $\vdash \vdash$ | 49       | _        | $\sqcup$        | _        |    | $\vdash$   | Щ        | $\sqcup$ | _        |          |               | 4        | 99               | 4             |          |          |          |                   | _             |          | +       | -          | <u> </u>     | 149           |               | ↓_      | 1   | <b>_</b>     | Ш        | _          | _            | _      |  |
| 1               | 50       | ı        | ı 1             | - 1      |    | 1 1  | ı 1      |          | - 1      | - 1      | 1             | - 1      | 100              | - 1           | - 1      | - 1      | - 1      | - 1               |               | - 1      | - 1     | 1.         | 1            | 150           | - 1           | 1       | 1   | 1            | ıl       | - 1        | - 1          |        |  |